Welex

5"=100'

INDUCTION • ELECTRIC LOG

COMPANY REICHHOLD ENERGY CORPORATION
WELL HAMMERBERG NO. 1 REDRILL NO. 1
FIELD NEHALEM BASIN
County COLUMBIA State ORE.

COMPANY REICHHOLD ENERGY CORPORATION
WELL HAMMERBERG NO. 1 REDRILL NO. 1
FIELD NEHALEM BASIN
COUNTY COLUMBIA STATE OREGON

Location 209'NORTH & 612'WEST OF THE EAST 1/4 CORNER OF: (W.B.&M.)

Sec. 14 Twp 6N Rge 5W

Other Services: C/AVL TDI DIP

Permanent Datum G.L. Elev. 553.6
Log Measured From K.B. OR 10.5 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 564.1
D.F.
G.L. 553.6

Date	9-20-79			
Run No.	ONE			
Depth—Driller	3318			
Depth—Welex	3318			
Btm. Log Inter.	3313			
Top Log Inter.	460			
Casing—Driller	7'' @ 398	@	@	@
Casing—Welex	400			
Bit Size	6 1/4			
Type Fluid in Hole	LIGNO-SULF			
Dens. | Visc.	78 | 40	|	|	|
pH | Fluid Loss	9.0 | N/A ml	| ml	| ml	| ml
Source of Sample	PIT			
R_m @ Meas. Temp.	2.48 @ 80 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.24 @ 76 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	3.0 @ 76 °F	@ °F	@ °F	@ °F
Source R_{mf} R_{mc}	MEASURED	|	|	|
R_m @ BHT	1.69 @ 117°F	@ °F	@ °F	@ °F
Time Since Circ.	2 1/2 HOURS			
Max. Rec. Temp.	117°F @ BHT	°F @	°F @	°F @
Equip. | Location	9430 | WDLND	|	|	|
Recorded By	KENNEDY			
Witnessed By	FRY, McBURNIE, CLARE			

Fold Here

Service Ticket No 048897 Remarks:

Change in Mud Type or Additional Samples

Date | Sample No.	|	|
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.	|	|
ph | Fluid Loss	| ml	|
Source of Sample		
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
Source: R_{mf} | R_{mc}	|	|
R_m @ BHT	1.69 @ 117 °F	@ °F
R_{mf} BHT	1.45 @ 117 °F	@ °F
R_{mc} BHT	1.94 @ 117 °F	@ °F

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

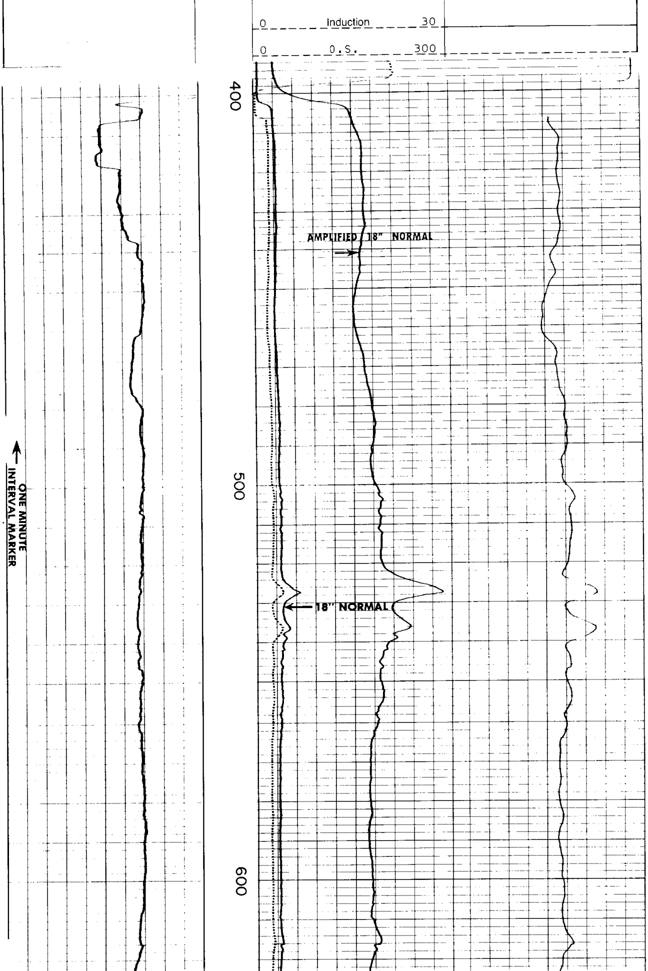
EQUIPMENT DATA

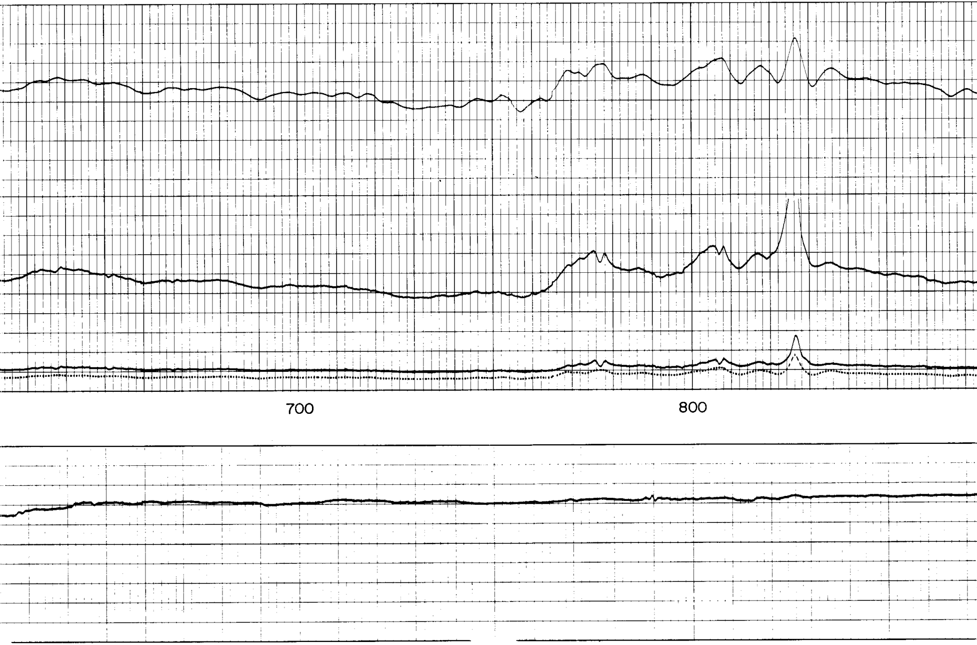
Run No.	Tool Type and No.	Pad Type	Tool Position	Other
ONE	IEL 13552	---	FREE	

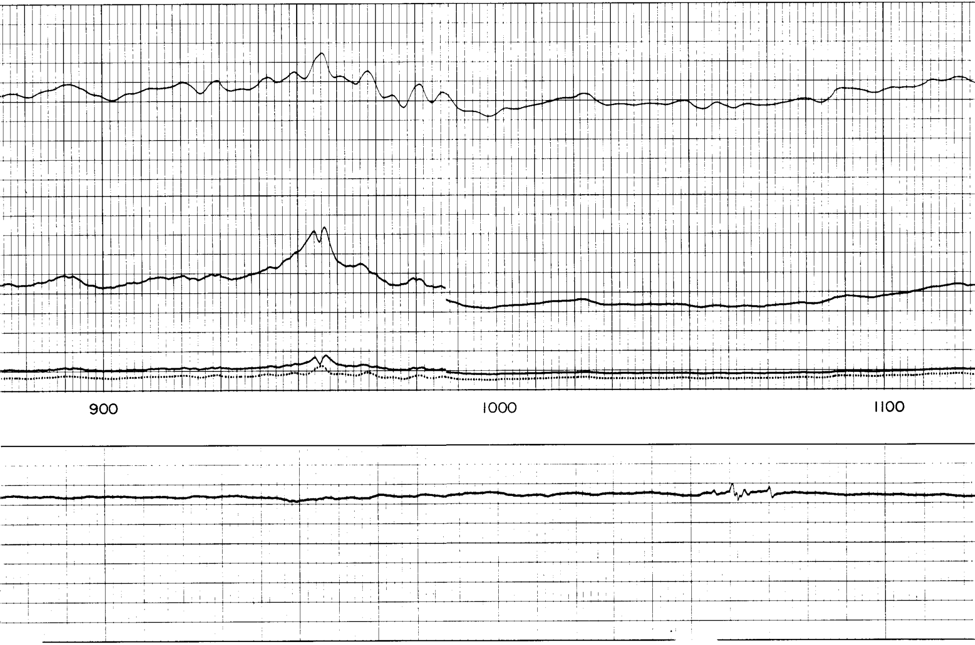
Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible except where due to gross negligence or wilful misconduct for any loss, damages or expenses resulting from the use thereof.

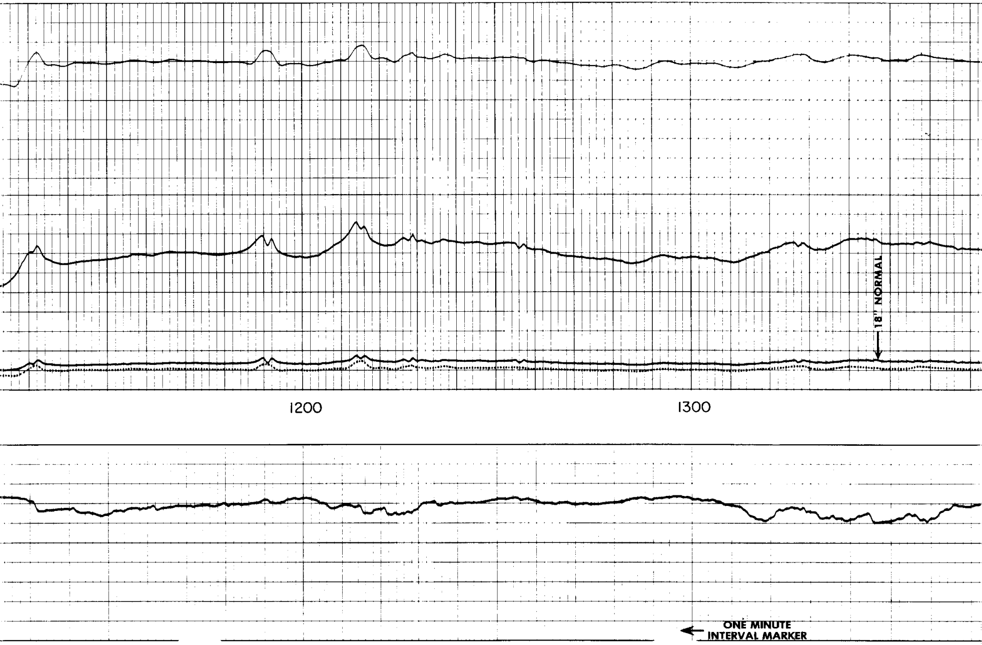
5" = 100'

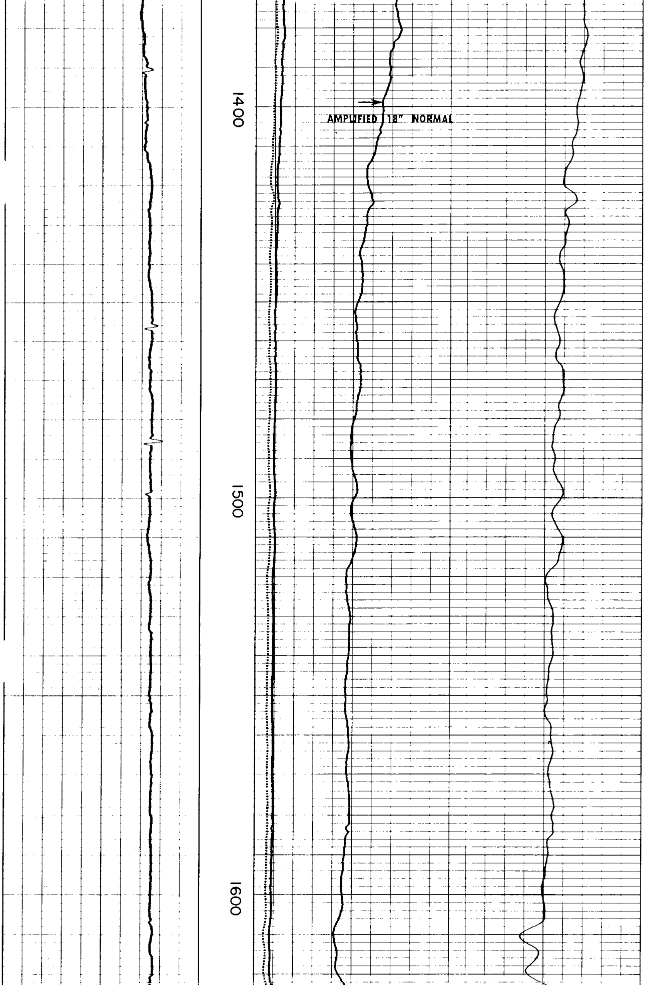
POTENTIAL MILLIVOLTS	RESISTIVITY OHMS M²/M	CONDUCTIVITY M MHOS/M
— → 10 ← +	0 18" Normal 30	1000 Induction 0
	0 O.S. 300	
Rmf ____ at ____ °F.	0 18''AMPL NORMAL 6	

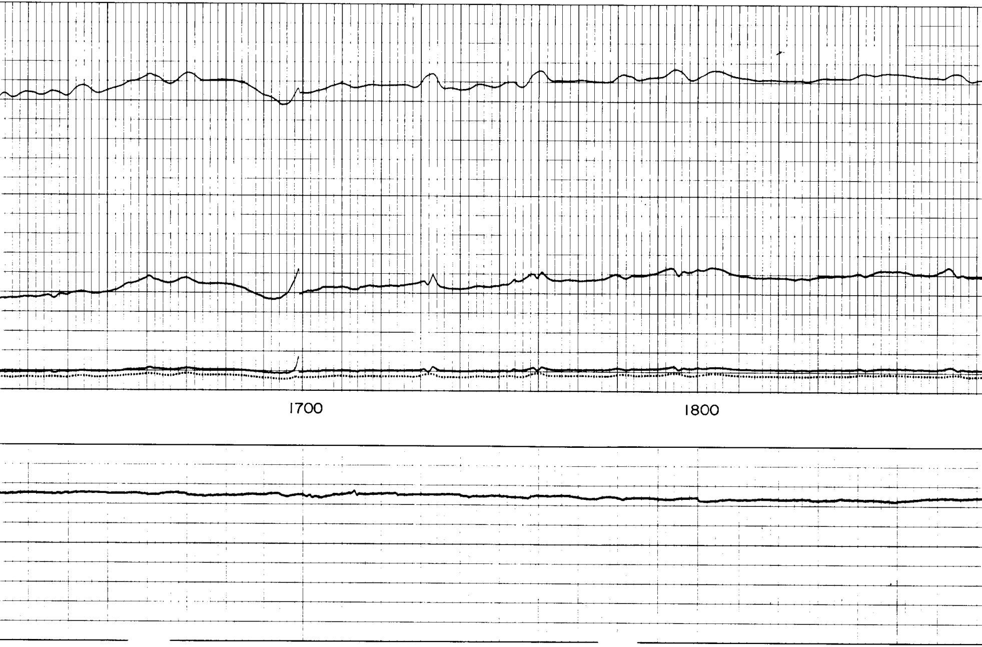


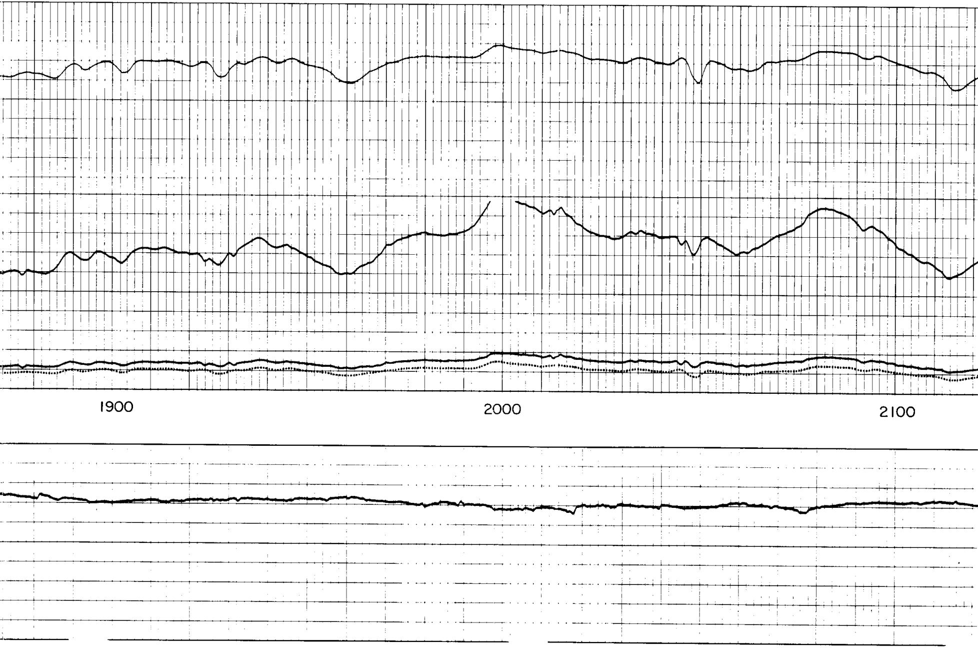


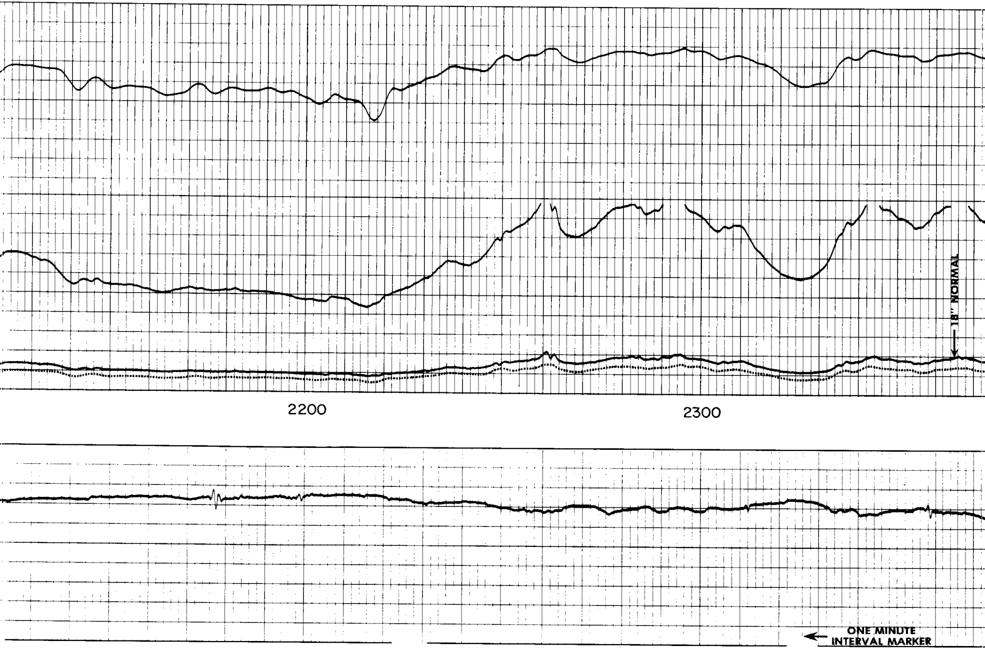


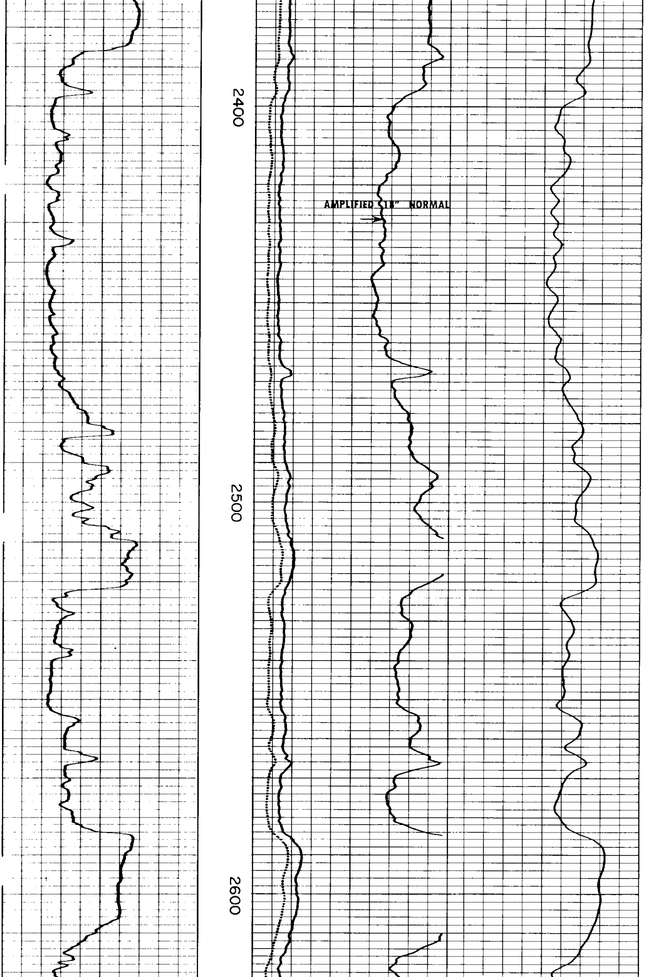


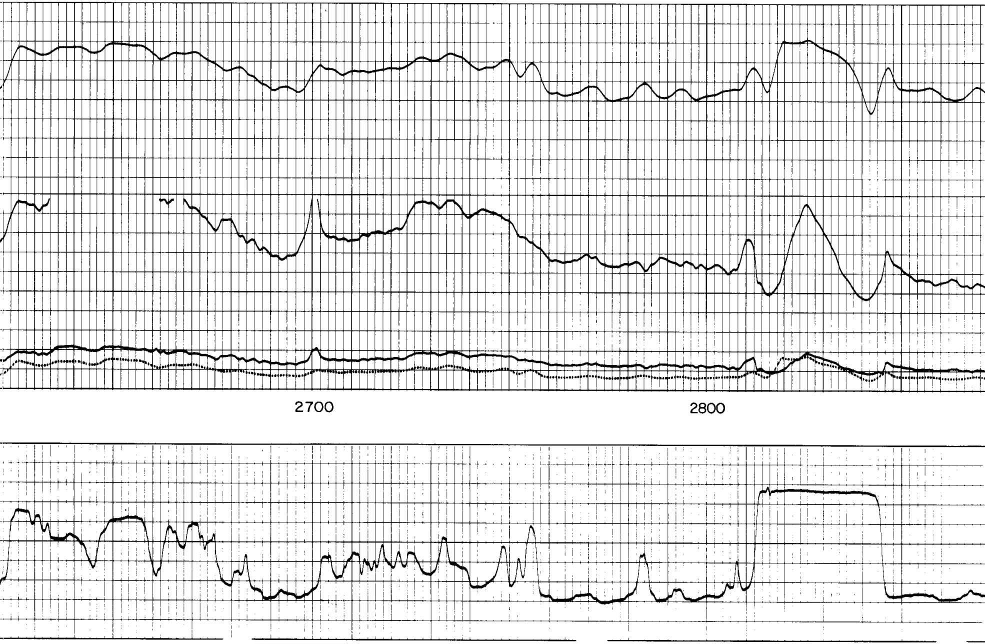


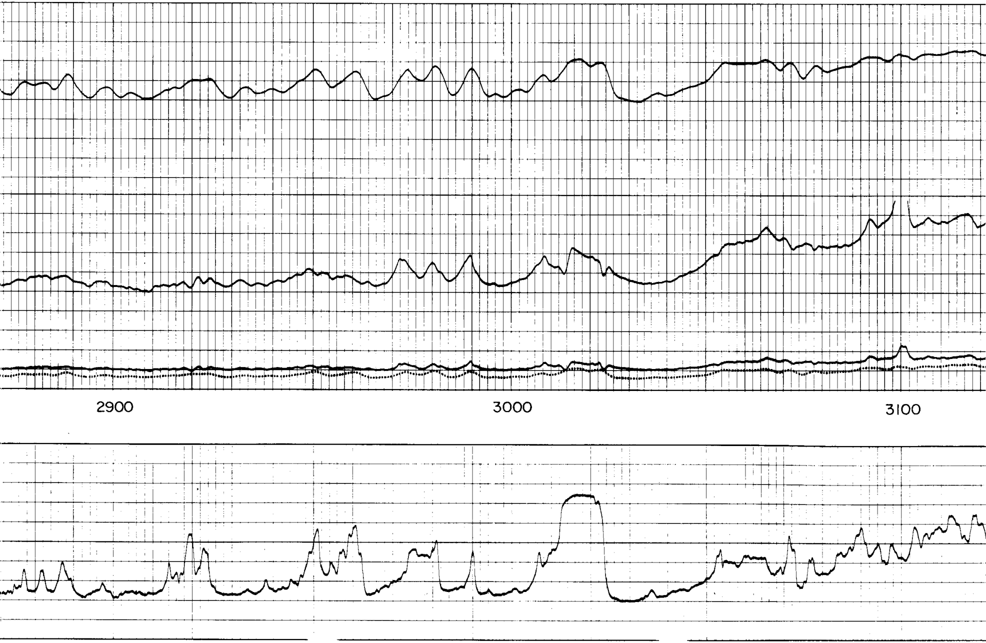


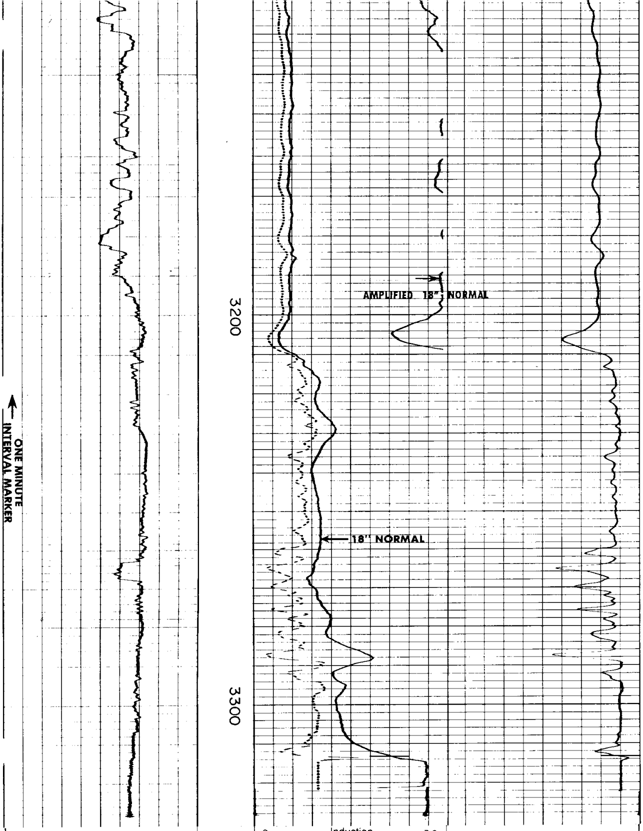












0 Induction 30

0 O.S. 300

Rmf 2.24 at 76 °F.

0 18" Normal 30

0 O.S. 300 | 1000 Induction 0

0 18''AMPL NORMAL 6

– → 10 ← +

POTENTIAL MILLIVOLTS

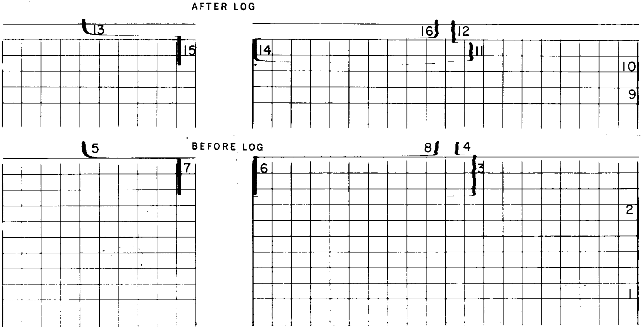
RESISTIVITY OHMS M²/M

CONDUCTIVITY M MHOS/M

REICHHOLD ENERGY CORPORATION
HAMMERBERG NO. 1 REDRILL NO. 1
NEHALEM BASIN
COLUMBIA COUNTY, OREGON

T.D. LOGGED 3313
T.D. DRILLER 3318
T.D. WELEX 3318

ELEV: KB 564.1 GL 553.6



INDUCTION ELECTRIC LOG FIELD CALIBRATIONS

1. RECORDER ZERO — COND
2. LOW REF. — ZERO CALIB.
3. HIGH REF. — INTERNAL CALIB. — BASE OUT
4. HIGH REF + BASE - INTERNAL CAL. BASE IN
5. S.P. BASE
6. RECORDER ZERO - NORMAL AND/OR LATERAL
7. S.P. + 50 M.V.
8. NORMAL AND/OR LATERAL REFERENCE
9. RECORDER ZERO — COND.
10. LOW REF. — ZERO CALIB.
11. HIGH REF. — INTERNAL CALIB. — BASE OUT
12. HIGH REF. + BASE - INTERNAL CAL. BASE IN
13. S.P. BASE
14. RECORDER ZERO - NORMAL AND/OR LATERAL
15. S.P. + 50 M.V.
16. NORMAL AND/OR LATERAL REFERENCE

1 THRU 8 — BEFORE LOG
9 THRU 16 — AFTER LOG
ALL SENSITIVITIES AT LOG SCALES,
EXCEPT AS NOTED